## **Listing Of Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## 1-14. (Canceled)

15. (Previously Presented) An apparatus for sensing an object and for outputting ascertained object data, comprising:

at least one object-detection device;

a connector element for connection to a data bus; and

an arrangement configured to send, via the connector element, a fixed, predetermined number of data packets provided for transmitting measurement data up to a maximum possible number of detected objects.

16. (Previously Presented) The apparatus as recited in Claim 15, further comprising: an arrangement configured to insert current measurement data of the detected objects into the fixed, predetermined number of data packets;

an arrangement configured to select and mark a most relevant object; and an arrangement configured to output the data packets to the data bus via the connector element.

17. (Previously Presented) The apparatus as recited in Claim 15, wherein: the measurement data of the object selected as the most relevant object are marked by one of a flag and inputting object data in a predetermined data packet.

18. (Previously Presented) The apparatus as recited in Claim 15, wherein:

the apparatus is at least one of a transmitting and receiving device for radar radiation, a transmitting and receiving device for lidar radiation, and a receiving device for an image processing system.

19. (Previously Presented) An apparatus, comprising:

an arrangement configured to transmit data between a first device that includes at least one object-detection device and a first connector element to a data bus, and a second device that includes at least one second connector element to the data bus and a device configured to further process measurement data ascertained by the object-detection device; and

an arrangement configured to transmit the measurement data via a fixed, predetermined number of data packets provided for transmitting measurement data up to a maximum possible number of detected objects.

- 20. (Previously Presented) The apparatus as recited in Claim 15, wherein the data bus is a CAN bus.
- 21. (Previously Presented) The apparatus as recited in Claim 15, wherein the apparatus is used in a motor vehicle in a device for adaptive cruise control along the lines of a constant-distance control and a constant-speed control.
- 22. (Previously Presented) A method for transmitting measurement data between an object-detection device and an evaluation device, comprising:

causing the evaluation device to send at least one data packet to the object-detection device;

causing the object-detection device to insert current measurement data of a detected object into a fixed, predetermined number of data packets;

marking objects selected as the most relevant objects and entering the marked objects into the fixed, predetermined number of data packets; and

outputting the data packets to a data bus via a connector element to the data bus.

23. (Previously Presented) The method as recited in Claim 22, wherein the data packets are provided for measurement data of a constant, predetermined number of detected objects.

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24. (Previously Presented) The method as recited in Claim 22, wherein: the marking includes at least one of using a flag and inputting object data at a specified position of the data packet.

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- 25. (Previously Presented) The method as recited in Claim 22, wherein the object-detection device inserts information into the data packet as to whether the evaluation device already identified the particular object as relevant in a preceding data exchange cycle.
- 26. (Previously Presented) The method as recited in Claim 22, wherein the data packets contain object identifiers.
- 27. (Previously Presented) The method as recited in Claim 22, further comprising: specifying at least one of a plurality of distance limits and a plurality of velocity limits, wherein:

the object-detection device only takes into account at least one of the detected objects whose distance to the object-detection device lies within the distance limits and the detected objects whose relative velocity in relation to the object-detection device lies within the velocity limits.

28. (Previously Presented) The method as recited in Claim 22, wherein the data packets are designed for a constant, predetermined number of objects and provide measurement data for 8, 16, or 32 objects.